

Notice of Allowability

Application No.

10/774,088

Examiner

Tung X. Nguyen

Applicant(s)

GUNN ET AL.

Art Unit

2829

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 3/16/07.
2. ☒ The allowed claim(s) is/are 1-97 and 100-102.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 5/21/07
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Carl T. Reed on 5/21/07.

In the claims, substitute claims 96-97 with the following:

--- 96. A power grid monitoring system comprising:

at least two apparatus, each apparatus comprising:

a conductive body having a body capacitance;

a power supply comprising at least two input terminals; a first of said at least two input terminals coupled to said conductive body and a second of said at least two input terminals operative to be coupled to said power line;

electronic circuit coupled to said power supply, the electronic circuitry operative to sense at least one of current flow with a current sensor and a voltage of said power line with a voltage sensor, the electronic circuit further comprising:

at least one analog to digital converter coupled to said voltage sensor and said current sensor; and

a processor coupled to said at least one analog to digital converter and operative to receive digital samples representative of said current flow in said power line and said voltage on said power line from said analog to digital converter;

wherein a primary current flows through said power supply between said conductive body and said power line and said power supply converts said primary current into a supply of power at a voltage substantially lower than said high AC line voltage for operation of said electronic circuitry;

at least two receiving devices each operative to receive data indicative of voltage from at least one of said at least two apparatus; and

at least one monitoring device operative to receive said data indicative of voltage from said at least two receiving devices and at least one of display and analyze said data indicative of voltage from more than one location on said power grid.

97. A power grid monitoring system comprising:

at least two apparatus, each apparatus comprising:

a conductive body having a body capacitance;

a power supply comprising at least two input terminal; a first of said at least two input terminals coupled to said conductive body and a second of said at least two input terminals operative to be coupled to said power line;

electronic circuitry coupled to said power supply, the electronic circuitry operative to sense at least one of a current flow with a current sensor and a voltage of said power line with a voltage sensor, the electronic circuit further comprising:

wherein a primary current flows through said power supply between said conductive body and said power line and said power supply converts said

primary current into a supply of power at a voltage substantially lower than said high AC line voltage for operation of said electronic circuitry;

at least two receiving devices each operative to receive data indicative of voltage from at least one of said at least two apparatus;

at least one monitoring device operative to receive said data indicative of voltage from said at least two receiving devices and at least one of display and analyze said data indicative of voltage from more than one location on said power grid;

wherein said at least two receiving devices are further operative to receive said position information from at least one of said at least two apparatus; and

wherein said at least one monitoring device is operative to receive said position information from said at least two receiving devices and display the position of said at least two apparatus. ---

REASONS FOR ALLOWANCE

2. Applicant's response have been fully considered and are persuasive, see "Remark" on page 18, filed 3/16/07, with respect to the allowance of claim(s) 1-97, and 100-102 indicated in the last Office Action. The amended claims 96-97 are allowed because they include all of limitations of the allowance ^{of} claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung X. Nguyen whose telephone number is (571) 272-1967. The examiner can normally be reached on 8:30am-5:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ha T. Nguyen can be reached on (571) 272-1678. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TN
5/22/07


HA TRAN NGUYEN
SUPERVISORY PATENT EXAMINER